PTO/SB/21 (02-04) Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE aperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. **Application Number** 10/661,381 TRANSMITTAL Filing Date September 12, 2003 **FORM** First Named Inventor Dubrow Art Unit 1733 (to be used for all correspondence after initial filing) **Examiner Name** Attorney Docket Number 01-002810 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance communication Fee Transmittal Form Drawing(s) to Technology Center (TC) Appeal Communication to Board Licensing-related Papers of Appeals and Interferences Fee Attached Appeal Communication to TC Petition Amendment/Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a Proprietary Information After Final Provisional Application Power of Attorney Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Terminal Disclaimer Extension of Time Request Identify below): PTO 1449 (3 pages), 25 references, return Request for Refund Express Abandonment Request receipt postcard. CD, Number of CD(s) Information Disclosure Statement Remarks Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm or Individual name	Andrew L. Filler, Reg. No. 44,107		
Signature	and the state of t		
Date	October 29, 3004		

CERTIFICATE OF TRANSMISSION/MAILING

Response to Missing Parts under 37 CFR 1.52 or 1.53

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Michelle Chan		
Signature	michelle Chan	Date	October 29, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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22313-1450 on: October 29, 2004

Signed:

Michelle Chan

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No.

10/661,381

Confirmation No.:

6710

Applicant

Robert S. Dubrow

Filed

September 12, 2003

TC/A.U.

1733

Examiner

Docket No.

01-002810

Customer No.

33140

Title

Structures, systems and methods for joining articles and materials

and uses therefor

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

The references cited on the attached form PTO-1449 are being called to the attention of the Examiner. Pursuant to 1276 OG 55 dated August 5, 2003, Applicants are not providing copies of US patents and/or publications as this application was filed after June 30, 2003. A copy of any non-US patent or publication reference cited is enclosed.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is made that a search has been conducted or that this statement encompasses all possible relevant information.

Appl. No. 10/661,381 Robert S. Dubrow Information Disclosure Statement Filed October 29, 2004

Applicants believe that no fee is required for submission of this statement, since it is being submitted within three months of the filing date or prior to the first Office Action.

However, if a fee is required, the Commissioner is authorized to charge such fee to Deposit Account No. 50-2336. Please charge any additional fees or credit any overpayment to the abovenoted deposit account.

Respectfully submitted,

Andrew L. Filler Reg. No. 44,107

NANOSYS, INC. 2625 Hanover Street Palo Alto, CA 94304 Tel: 650-331-2176

Fax: 650-331-2101

Substitute for form 1449A/PTO Complete if Known **Application Number** 10/661,381 **FORMATION DISCLOSURE Filing Date September 12, 2003 STATEMENT BY APPLICANT First Named Inventor Dubrow Art Unit 1733 (use as many sheets as necessary) **Examiner Name** Attorney Docket Number 01-002810 Sheet of

	Y	Document No.	J.S. PATENT DO	CUMENTS	Pages, Columns, lines, Where
Examiner Initials	Cite No.	Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Relevant Passages or Relevant Figures Appeal
	AA	US-5,976,957	11-021999	Westwater et al.	
	AB	US-6,106,913	08-22-2000	Scardino et al.	
	AC	US-6,130,143	10-10-2000	Westwater et al.	
	AD	US-6,265,333	07-24-2001	Dzenis et al.	
	AE	US-6,268,041	07-31-2001	Goldstein	
	AF	US-6,270,347	08-07-2001	Webster et al.	
	AG	US-6,313,015	11-06-2001	Lee et al.	
•	АН	US-6,322,895	11-27-2001	Canham	
	Al	US-6,359,288	03-19-2002	Ying et al.	
	AJ	US-6,666,214	12-23-2003	Canham	
	AK	US-6,670,179	12-30-2003	Mattson et al.	
	AL	US-6,720,240	04-13-2004	Gole et al.	
	AM	US-20020037383	03-28-2002	Spillman et al.	
	AN	US-20020049495	04-25-2002	Kutryk et al.	
	AO	US-20020090725	07-11-2002	Simpson et al.	
	AP	US-20020130311	09-19-2002	Lieber et al.	
	AQ	US-20020167118	11-14-2002	Billiet et al.	
	AR	US-20030032892	02-13-2003	Erlach et al.	
	AS	US-20030059742	03-27-2003	Webster et al.	
	AT	US-20030065355	04-03-2003	Weber	
	AU	US-20030089899	05-15-2003	Lieber et al.	
	AV	US-20030093107	05-15-2003	Parsonage et al.	
	AW	US-20030195611	10-16-2003	Greenhalgh et al.	
	AX	US-20030229393	12-11-2003	Kutryk et al.	
	AY	US-20040009598	01-15-2004	Hench et al.	
	AZ	US-20040052867	03-18-2004	Canham	
	ВА	US-20040115239	06-17-2004	Shastri et al.	
Examine Signatur				Date Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A/PTO		С	Complete if Known		
		Application Number	10/661,381		
INFO	RMATION DISCLOSURE	Filing Date	September 12, 2003		
STAT	EMENT BY APPLICANT	First Named Inventor	Dubrow		
		Art Unit	1733		
(use as many sheets as necessary)		Examiner Name			
Sheet	of	Attorney Docket Number	01-002810		

		FOREIG	IN PATENT DO	CUMENTS		
Examiner Initials	Cite No.	Foreign Patent Document Country Code - Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т
	ВВ	WO-9940812	08-19-1999	Michigan State University		
	ВС	WO-0149776	07-12-2001	UC Regents		
	BD	WO-03095190	11-20-2003	UC Regents		
· • · · · =	BE	WO-03097702	11-27-2003	Lewis and Clark College		
	BF	WO-03099951	12-04-2003	Max-Planck		
	BG	WO-03102099	12-11-2003	DuPont		

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	т
	вн	AUTUMN, K. et al., "Adhesive force of a single gecko foot-hair" Nature (2000) 405:681-685	
	ВІ	CHEN, I.W. et al., "Sintering dense nanocrystalline ceramics without final-stage grain growth" Nature (2000) 404(6774):168-171	
	BJ	CHOI, H. et al., "Surface-modified silica colloid for diagnostic imaging" J. Colloid Interface Sci (2003) 258(2):435-437	
	BK	CUI et al., "Functional nanoscale electronic devices assembled using silicon nanowire building blocks" Science (2001) 291:851-853	
	BL	CUI et al., "Nanowire nanosensors for highly sensitive and selective detection of biological and chemical species" Science (2001) 293:1289-1292	
	ВМ	DAVIS, D.H. et al., "Immobilization of RGD to <111> silicon surfaces for enhanced cell adhesion and proliferation" Biomaterials (2002) 23:4019-4027	
	BN	DUAN et al., "Single-nanowire electrically driven lasers" Nature (2003) 421:241-245	
	во	GEIM, A.K. et al., "Microfabricated adhesive mimicking gecko foot-hair" Nature Materials (2003) 2:461-463	
	BP	GREENE, L.E. et al., "Low-Temperature Wafer-Scale Production of ZnO Nanowire Arrays" Angew. Chem. Int. Ed. (2003) 42:3031-3034	
	BQ	HANEKAMP C. et al., "Randomized comparison of balloon angioplasty versus silicon carbon- coated stent implantation for de novo lesions in small coronary arteries" Am. J. Cardiol. (2004) 93(10):1233-1237	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Subs	titute for form 1449A/PTO		Complete if Known		
			Application Number	10/661,381	
INF	ORMATION DISCLOSURI	Ē	Filing Date	September 12, 2003	
STA	STATEMENT BY APPLICANT		First Named Inventor	Dubrow	
			Art Unit	1733	
	(use as many sheets as necessary)		Examiner Name		
Sheet	of		Attorney Docket Number	01-002810	

BR	HUANG, et al., "Integrated optoelectronics assembed from semiconductor nanowires" Abstracts of Papers of the ACS (2002) 224:U308
BS	PRICE, R.L. et al., "Nanometer surface roughness increases select osteoblast adhesion on carbon nanofiber compacts" J. Biomed. Mat. Res. (2004) 70A(1):129-138
ВТ	SHASTRI, V.P., "Non-degradable biocompatible polymers in medicine: past, present and future" Curr Pharm. Biotechnol. (2003) 4(5):331-337
BU	SILVA, G.A. et al., "Selective differentiation of neural progenitor cells by high-epitope density nanfibers" Science (2004) 303:1352-1355
BV	WEBSTER, T.J. et al., "Nano-biotechnology: carbon nanofibres as improved neural and orthopaedic implants" Nanotechnology (2004) 15:48-54
BW	WEBSTER, T.J. et al., "Increased osteoblast adhesion on nanophase metals: Ti, Ti6A14V, and CoCrMo" Biomaterials (2004) 25:4731-4739
ВХ	XU, H. et al., "Room-temperature preparation and characterization of poly(ethylene glycol)-coated silica nanoparticles for biomedical applications" J. Biomed. Mat. Res. (2003) 66A(4):870-879
BY	XU, H. et al., "Strong and bioactive composites containing nano-silica-fused whiskers for bone repair" Biomaterials (2004) 25:4615-4626
BZ	ZHOU et al., "Silicon nanowires as chemical sensors" Chem. Phys. Lett. (2003) 369:220-224

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Examiner	Date	
Signature	Considered	

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